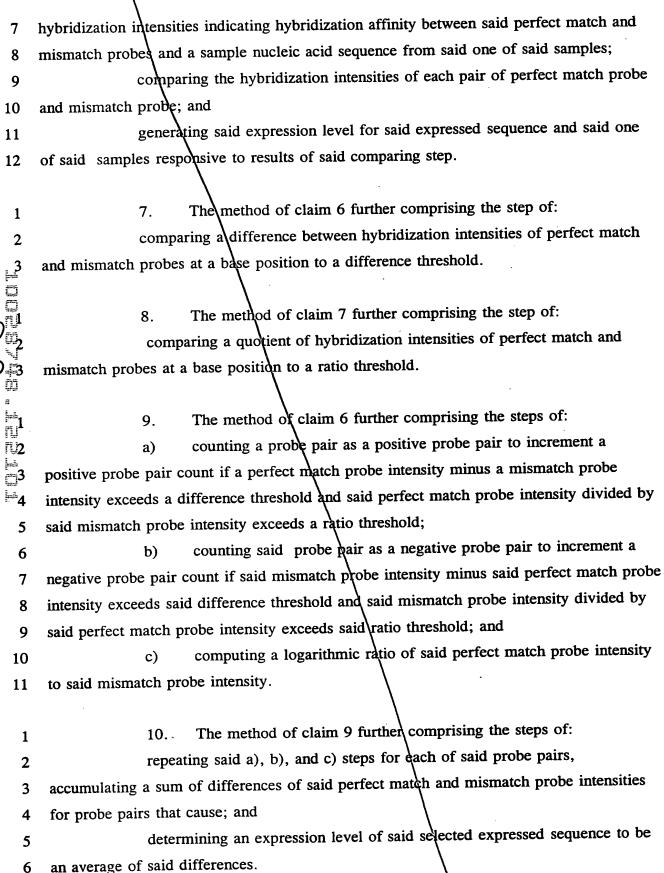


## WHAT IS CLAIMED IS:

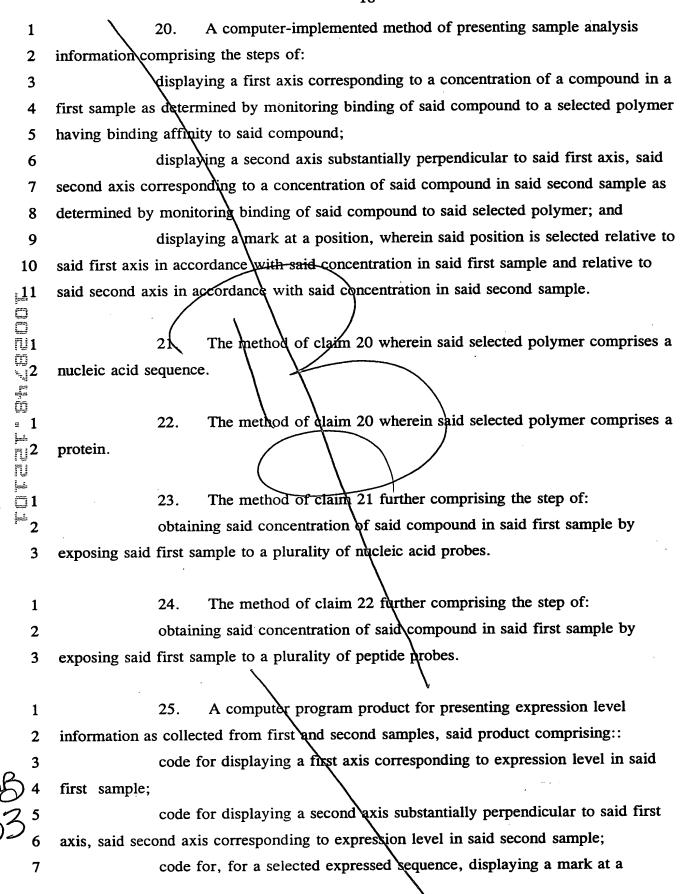
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1	1. A computer-implemented method of presenting expression level
2	information as collected from first and second samples, said method comprising the steps
3	of:
4	displaying a first axis corresponding to expression level in said first
5	sample;
6	displaying a second axis substantially perpendicular to said first axis, said
7	second axis corresponding to expression level in said second sample; and
8	for a selected expressed sequence, displaying a mark at a position, wherein
9	said position is selected relative to said first axis in accordance with an expression level
[0	of said selected expressed sequence in said first sample and relative to said second axis in
	accordance with an expression level of said selected expressed sequence in said second
12	sample.
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<b>1</b>	2. The method of claim 1 wherein said selected expressed sequence
_2	comprises a gene.
⊍ ≟1 	3. The method of claim 1 wherein said selected expressed sequence
<u>.</u> 2	comprises a portion of a gene.
1	4. The method of claim 1 further comprising the step of repeating said
2	displaying a mark step for a plurality of selected expressed sequences.
1	5. The method of claim 1 further comprising the steps of:
2	monitoring said expression level of said expressed sequence in said first
3	sample and said second sample.
1	6. The method of claim 3 wherein said monitoring step for one of said
2	samples comprises substeps of:

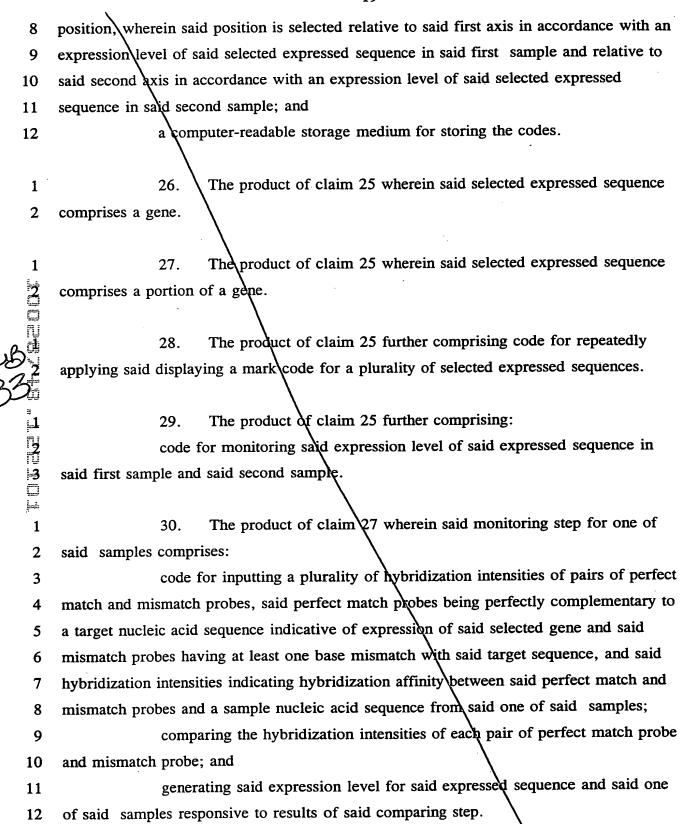
inputting a plurality of hybridization intensities of pairs of perfect match and mismatch probes, said perfect match probes being perfectly complementary to a target nucleic acid sequence indicative of expression of said selected gene and said

mismatch probes having at least one base mismatch with said target sequence, and said



1	11 The method of claim 1 further comprising the steps of:
2	receiving user input selecting said mark; and
3	in response to said user input, displaying information about said selected
4	expressed sequence.
1	12. The method of claim 11 further comprising the steps of:
2	in response to said user input, displaying information about said selected
3	expressed sequence.
1	13. The method of claim 12 wherein said information about said
	selected expressed sequence comprises a GenBank accession number.
U T1	14. The method of claim 12 wherein said information about said
2	selected expressed sequence comprises a GenBank database record for said selected
<b>3</b>	expressed sequence.
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<u>1</u> 1	15. The method of claim\1 wherein said first sample and said second
	sample are collected from tissue samples differing in a particular characteristic.
1	16. The method of claim 15 wherein said particular characteristic
2	comprises presence of disease.
1	17. The method of claim 15 wherein said particular characteristic
2	comprises a treatment strategy for a disease.
1	18. The method of claim 1 wherein said particular characteristic is a
2	stage of a disease.
1	19. The method of claim 1 further comprising the step of:
2	displaying a third axis substantially perpendicular to said first axis and to
3	said second axis in a three-dimensional display environment wherein said position of said
4	mark is further selected relative to said third axis in accordance with an expression level
5	of said selected expressed sequence in a third sample.





1	31. The product of claim 30 further comprising:
2	code for comparing a difference between hybridization intensities of perfect
3	match and mismatch probes at a base position to a difference threshold.
1	32. The product of claim 31 further comprising:
2	code for comparing a quotient of hybridization intensities of perfect match
3	and mismatch probes at a base position to a ratio threshold.
1	33. The product of claim 30 further comprising:
2	a) code for counting a probe pair as a positive probe pair to increment a
<u>_3</u>	positive probe pair count if a perfect match probe intensity minus a mismatch probe
	intensity exceeds a difference threshold and said perfect match probe intensity divided by
T.5	said mismatch probe intensity exceeds a ratio threshold;
<u>.</u> 6	b) code for counting said probe pair as a negative probe pair to increment
	a negative probe pair count if said mismatch probe intensity minus said perfect match
= <b>8</b>	probe intensity exceeds said difference threshold and said mismatch probe intensity
<b>19</b>	divided by said perfect match probe intensity exceeds said ratio threshold; and
10	c) code for computing a logarithmic ratio of said perfect match probe
11	intensity to said mismatch probe intensity.
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1	34. The product of claim 33 further comprising:
2	code for repeatedly applying said a), b), and c) codes for each of said
3	probe pairs, accumulating a sum of differences of said perfect match and mismatch probe
4	intensities for probe pairs that cause; and
5	code for determining an expression level of said selected expressed
6	sequence to be an average of said differences.
1	35. The product of claim 25 further comprising:
2	code for receiving user input selecting said mark; and
3	code for, in response to said user input, displaying information about said
4	selected expressed sequence.

1	7 36. The product of claim 35 further comprising:
2	code for, in response to said user input, displaying information about said
3	selected expressed sequence.
1	37. The product of claim 36 wherein said information about said
2 .	selected expressed sequence comprises a GenBank accession number.
1	38. The product of claim 36 wherein said information about said
2	selected expressed sequence comprises a GenBank database record for said selected
3	expressed sequence.
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1	39. The product of claim 25 wherein said first sample and said second
	sample are collected from tissue samples differing in a particular characteristic.
1	40. The product of claim 39 wherein said particular characteristic
2	comprises presence of disease.
2    	41. The product of claim 39 wherein said particular characteristic
2	comprises a treatment strategy for a disease.
1	42. The product of claim 25 wherein said particular characteristic is a
2	stage of a disease.
1	43. The product of claim 25 further comprising the step of:
2	displaying a third axis substantially perpendicular to said first axis and to
3	said second axis in a three-dimensional display environment wherein said position of said
4	mark is further selected relative to said third axis in accordance with an expression level
5	of said selected expressed sequence in a third sample.
	44. A computer program product for presenting sample analysis
1	/ - \ /
2	information comprising:  code for displaying a first axis corresponding to a concentration of a
3	compound in a first sample as determined by monitoring binding of said compound to a
4	compound in a rust sample as determined by indutioning or said sompound to a

5	selected polymer having bonding affinity to said compound;
6	code for displaying a second axis substantially perpendicular to said first
7	axis, said second axis corresponding to concentration of said compound in a second
8	sample as determined by monitoring binding of said compound to said selected polymer;
9	code for displaying a mark at a position, wherein said position is selected
10	relative to said first axis in accordance with said concentration in said first sample and
11	relative to said second axis in accordance with said concentration in said second sample;
12	and
13	a computer-readable storage medium that stores the codes.
1	45. The product of claim 44 wherein said selected polymer comprises a
	nucleic acid sequence.
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1	46. The product of claim 44 wherein said selected polymer comprises a
2	protein.
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1	47. A computer system comprising a display, a processor, and a
- - -2 -3	memory that stores instructions for configuring said processor to:
_3	display a first axis corresponding to expression level in said first sample;
4	display a second axis substantially perpendicular to said first axis, said
5	second axis corresponding to expression level in said second sample; and
6	for a selected expressed sequence, display a mark at a position, wherein
7	said position is selected relative to said first axis in accordance with an expression level
8	of said selected expressed sequence in said first sample and relative to said second axis in
9	accordance with an expression level of said selected expressed sequence in said second
10	sample.
1	48. A computer system comprising a display, a processor, and a
2	memory that stores instructions for configuring said processor to:
3	display a first axis corresponding to a concentration of a compound in a
4	first sample as determined by monitoring binding of said compound to a selected polymer
5	having binding affinity to said compound;
6	display a second axis substantially perpendicular to said first axis, said

second axis corresponding to a concentration of said compound in said second sample as
determined by monitoring binding of said compound to said selected polymer; and
display a mark at a position, wherein said position is selected relative to
said first axis in accordance with said concentration in said first sample and relative to
said second axis in accordance with said concentration in said second sample.